

CLAIMS

What is claimed is:

1. An air conditioning apparatus for a rear seat comprising:
an air conditioning unit capable of supplying the conditioned air to a cabin of a vehicle;
a ducting provided at a front seat in the vehicle having a flexible duct member with a U-shape to allow said ducting to travel in conjunction with the travel of the front seat; and
a blow-out port from which the conditioned air, which is sent from the air conditioning unit, is blown out toward a passenger being seated on the rear seat, said blow-out port provided in an appropriate position at a back surface of said front seat to supply the conditioned air to said passenger, and said blow-out port connected to said ducting in the front seat.
2. An air conditioning apparatus according to claim 1, further comprising a connection duct connecting the air conditioning unit and the ducting.
3. An air conditioning apparatus according to claim 2, wherein said connection duct is a center duct located in a center console of the vehicle.
4. An air conditioning apparatus according to claim 2, wherein said connection duct is a floor duct located on a floor inside the vehicle.

5. An air conditioning apparatus according to claim 2, further comprising an air tight connection provided between the ducting and the connection duct so that the ducting can be spaced from the connection duct when the front seat is folded up or removed from a floor of the vehicle.

6. An air conditioning apparatus according to claim 1, wherein said ducting further comprises:

a leading duct member provided in a back-support portion of the front seat, having two ends, wherein one of the two ends is connected to said flexible duct member, and other one of the two ends is connected to the blow-out port,

wherein said flexible duct is provided in a cavity formed in a seat portion of the front seat.

7. An air conditioning apparatus according to claim 1, wherein said ducting is formed as a single member by a molding process.

8. An air conditioning apparatus for a rear seat comprising:

an air conditioning unit capable of supplying the conditioned air to a cabin of a vehicle;

a connection duct leading the conditioned air to a rear side of the vehicle;

a ducting provided at a front seat in the vehicle having a duct member and a blow-out port from which the conditioned air, which has passed through the

connection duct, is blown out toward a passenger being seated on the rear seat;
and

an air tight connecting member provided between said connection duct and said ducting, said air tight connecting member providing air-tight connection therebetween, further said air tight connecting member capable of allowing said ducting to be detached from said connection duct in conjunction with a folded up condition of said front seat or a removed condition of said front seat.

9. An air conditioning apparatus according to claim 8, further comprising:

a door provided at the connection duct to close an opening formed in the connection duct for communicating with the ducting when the ducting is detached from the connection duct; and

an opening protrusion provided at the air tight connecting member, said opening protrusion having an opening to communicate with the connection duct, and said opening protrusion opening said door so that the air tight connecting member fits with the opening formed in the connection duct when the front seat is in a down position, so that the conditioned air go through the opening formed in the opening protrusion.